

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 November 2005 (24.11.2005)

PCT

(10) International Publication Number
WO 2005/112084 A1

(51) International Patent Classification⁷: **H01L 21/205**

Bundang-gu, Seongnam City, Gyeonggi-do 463-480 (KR).
KIM, Hyun-Chang [KR/KR]; 106-501, KunYoung Apt.,
Jisan-dong, Pyeongtaek-City, Gyeonggi-do 459-747 (KR).

(21) International Application Number:
PCT/KR2005/001444

(74) Agent: **KIM, Inhan**; Room 901, Doorea Bldg., 24., Yeoui-
dong., Yeongdeungpo-gu, Seoul 150-877 (KR).

(22) International Filing Date: 17 May 2005 (17.05.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2004-0035025 18 May 2004 (18.05.2004) KR
10-2004-0035024 18 May 2004 (18.05.2004) KR

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): **MECHA-
RONICS CO., LTD.** [KR/KR]; 599-15, Jisan-dong,
Pyeongtaek-City, Gyeonggi-do 459-110 (KR).

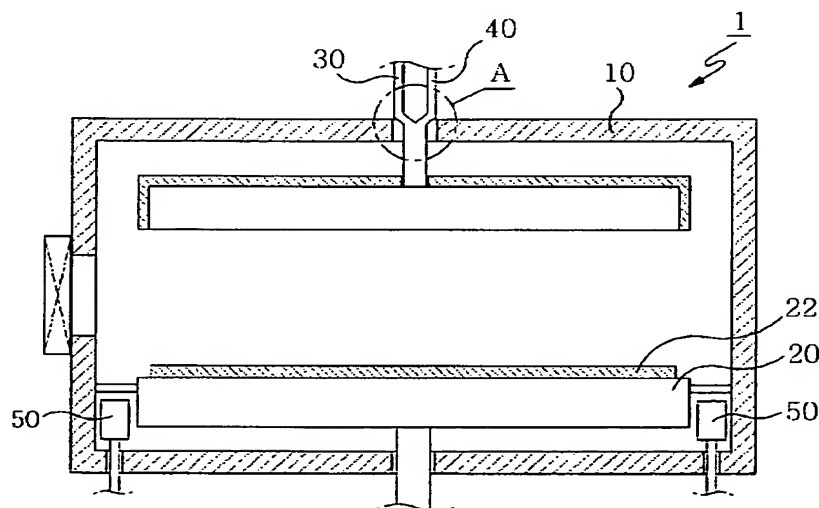
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JANG, Hyuk-Kyoo**
[KR/KR]; 901-1212, Chungsol Maeul, Keumgok-dong,

[Continued on next page]

(54) Title: METHOD FOR FORMING ORGANIC LIGHT-EMITTING LAYER



(57) Abstract: Disclosed herein is a method for forming a light-emitting layer on an industrial scale via chemical vapor deposition or molecular layer deposition. According to the method, a metal-containing material and an 8-hydroxyquinoline derivative having stable vapor pressure characteristics are used as raw materials and are vaporized.

WO 2005/112084 A1

WO 2005/112084 A1



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*